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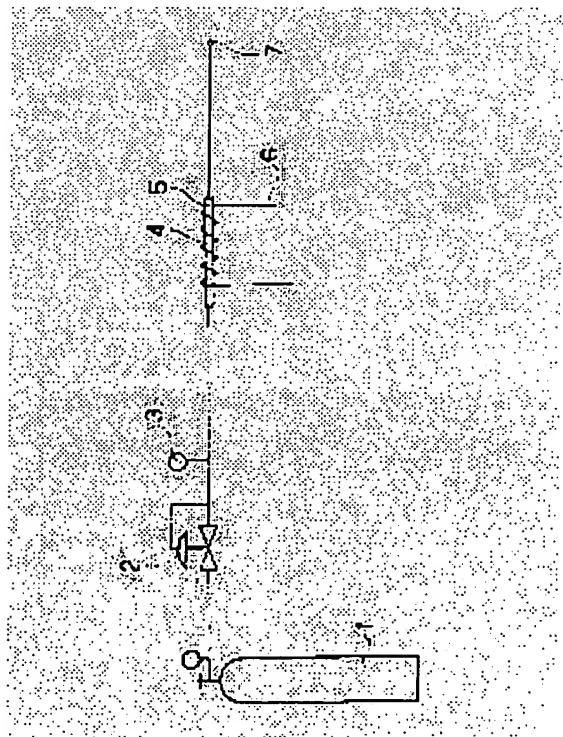
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(54) PRODUCTION OF WATER STANDARD GAS

(57)Abstract:

PURPOSE: To obtain a water standard gas of a prescribed moisture concn. easily and surely by supplying gaseous raw materials of a prescribed concn. continuously from a bomb, allowing the gases to react to produce water and humidifying the remaining gases with said water.

CONSTITUTION: Gaseous raw materials such as, for example, an inert gas contg. oxygen of a prescribed concn. and hydrogen of a concn. higher than twice equiv. the concn. of oxygen, or air contg. a hydrogen-contg. compd. such as hydrocarbon or the like which is a source for supplying hydrogen of a prescribed concn., or gaseous hydrogen contg. an oxygen-contg. compd. which is a source for supplying oxygen of a prescribed concn. are filled in a gas bomb 1 filled with the gaseous raw materials. The gaseous raw materials are fed to a reactor 4, where the materials are heated and the water corresponding to the content of the oxygen or hydrogen contained in the gaseous raw materials is produced continuously. Since the remaining gases which do not contribute to the reaction are humidified by the produced water, the water standard gas of a prescribed moisture concn. is produced continuously. Said gas is discharged through a discharge port 7.



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